

1. An automatic setting method in a timer reservation mode for setting a timer reservation in order to carry out a programmed recording in a VCR employing a plurality of reservation modes using a microprocessor, the method comprising:

an automatic reservation mode setting step in a reservation mode which memorizes the last reserved reservation mode, and automatically sets the memorized reservation mode at the next reservation, in the case where programmed recordings are carried out by [a] the plurality of reservation modes; and

an automatic time adjustment implementing step for shifting to a time adjusting mode where the current time may be set by a user upon inputting a reservation key and upon selecting a reservation mode, when the current time has not been set.

2. The automatic setting method as claimed in claim 1, wherein said automatic reservation mode setting step comprises:

a reservation mode fetching step sub-step which fetches the memorized reservation mode; and  
reservation mode implementing sub-step which automatically reserves the fetched last reservation mode and stores the reserved reservation mode as the last reservation mode into said microprocessor after the completion of the reservation.

3. The automatic setting method [in a reservation mode] as claimed in claim 1, wherein said automatic time adjustment mode implementing step comprises:

a reservation mode selecting sub-step which displays a menu when said automatic reservation setting mode step has not set the memorized reservation mode or when a reservation key is pressed twice for another reservation mode and when a reservation mode is selected from said menu, thereafter storing the selected mode into said microprocessor;

a time adjustment mode implementing sub-step which automatically advances to a time adjusting mode to set the current time upon finding that the current time has not been set; and

a memorized reservation mode implementing sub-step which fetches the reservation mode stored at said reservation mode selecting sub-step and performs the fetched reservation mode and stores the reserved reservation mode as the last reservation mode into said microprocessor.

4. An automatic setting method for setting a timer reservation mode in a VCR to a specific mode from a plurality of possible modes, [including the steps of] comprising:

- (a) storing the mode of a currently performed timer operation in a memory;
- (b) reading said mode out of said memory when a next timer operation is performed;
- (c) using the read-out mode as the mode for

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said next timer operation, wherein said step (c) involves checking to determine which of said plurality of modes is equal to said read-out mode;

(d) displaying a menu of said possible modes when the checking in step (c) has resulted in none of said plurality being equal to said read-out mode; and

step (e) of storing a mode selected by the user from said displayed menu.

5. The method as claimed in claim 4, further [including a step] comprising:

(f) [of] automatically shifting to a time adjusting mode for setting the current time when the current time is not already set.

6. [A] The method as claimed in claim 4, further [including the step] comprising:

(g) reading out the stored mode at step (e) and performing a timer reservation operation according to read-out mode.

7. The method [according to] as claimed in claim 6, wherein when a reservation key is pressed twice, said menu is displayed and said steps (e) and (g) are performed.

8. A method of setting a timer reservation in a device having a plurality of reservation modes, the method comprising:

an automatic reservation mode setting operation in a reservation mode which memorizes the last reserved reservation mode, and automatically sets the memorized reservation mode at the next reservation; and

an automatic time adjustment implementing operation which shifts to a time adjusting mode where the current time may be set by a user upon inputting a reservation key and upon selecting a reservation mode, when the current time has not been set.

9. The method as claimed in claim 8, wherein said automatic reservation mode setting operation comprises:

a reservation mode fetching operation sub-operation which fetches the memorized reservation mode; and

reservation mode implementing sub-operation which automatically reserves the fetched last reservation mode and stores the reserved reservation mode as the last reservation mode after the completion of the reservation.

10. The method as claimed in claim 8, wherein said automatic time adjustment mode implementing operation comprises:

a reservation mode selecting sub-operation which displays a menu when said automatic reservation setting mode operation has not set the memorized reservation mode in response to another input from the user for another reservation mode and when a reservation mode is selected from said menu,

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thereafter storing the selected mode;  
a time adjustment mode implementing sub-operation which automatically advances to a time adjusting mode to set the current time upon finding that the current time has not been set; and  
a memorized reservation mode implementing sub-operation which fetches the reservation mode stored at said reservation mode selecting sub-operation and performs the fetched reservation mode and stores the reserved reservation mode as the last reservation mode.

✓ 11. A method of setting a timer reservation mode in a device having a plurality of reservation modes to a specific mode, the method comprising:

storing the mode of a currently performed timer operation;

reading said stored mode when a next timer operation is performed;

using the read-out mode as the mode for said next timer operation, wherein said using of the read-out mode comprises checking to determine which of said plurality of modes is equal to said read-out mode;

displaying a menu of said possible modes when the checking has resulted in none of said plurality of modes being equal to said read-out mode; and

storing a mode selected by the user from said displayed menu.

12. The method as claimed in claim 11, further comprising automatically shifting to a time adjusting mode for setting the current time when the current time is not already set.

13. The method as claimed in claim 12, further comprising:

reading out the stored mode selected by the user and performing a timer reservation operation according to read-out mode selected by the user.

14. The method as claimed in claim 13, further comprising, in response to another input from the user for another reservation mode, displaying the menu, storing the mode selected by the user, and reading out the stored mode selected by the user.

✓ 15. A method of setting a timer reservation in a device having a plurality of reservation modes, the method comprising:

selecting one of the reservation modes from the plurality of reservation modes and performing the timer reservation in the one reservation mode; and

automatically setting a current reservation mode to the one reservation mode in response to a request for a next timer reservation.

16. The method as claimed in claim 15, wherein the automatically setting comprises:

determining whether the one reservation



automatically setting a next reservation mode to the last reservation mode in response to the request for a next timer reservation.

23. The method as claimed in claim 22, wherein the automatically setting comprises:

determining whether the last reservation mode has been previously stored; and

displaying a menu to select one of the plurality of reservation modes and receiving a user input in response to the displayed menu, if no last reservation mode has been previously stored; and

performing the next timer reservation in accordance with the last reservation mode if the last reservation mode has been previously stored or in accordance with the user selected reservation mode from the displayed menu if no last reservation mode has been previously selected.

24. The method as claimed in claim 23, wherein the determining whether the last reservation mode has been previously stored comprises:

retrieving the stored last reservation mode in response to the request for the next timer reservation; and

sequentially comparing the retrieved last reservation mode to ones of the plurality of reservation modes, and if there is a match between the retrieved one reservation mode and any of the ones of the plurality of reservation modes, setting the next reservation mode to the one of the plurality of reservation modes which matches the retrieved last reservation mode.

25. The method as claimed in claim 24, wherein the plurality of reservation modes comprises a VCR plus reservation mode, a VPT reservation mode, and a PDC reservation mode.

26. The method as claimed in claim 23, further comprising storing whichever of the last reservation mode and the user selected reservation mode is used to perform the next timer reservation as a new last reservation mode in response to performing the next timer reservation.

27. The method as claimed in claim 22, further comprising:

checking whether a current time has been set before performing the next timer reservation;

automatically shifting to a time adjusting mode for enabling a user to enter the current time if the current time has not been set; and

performing the next timer reservation subsequent to the current time having been set or entered by the user.

28. The method of claim 22, wherein the timer reservation is to set a programmable recording operation.

✓ 29. A method of setting a timer reservation in a device, the method comprising:

receiving a request for the timer reservation;  
checking whether a current time has been  
set before performing the timer reservation;  
automatically shifting to a time adjusting  
mode for enabling a user to enter the current time if  
the current time has not been set; and  
performing the timer reservation subsequent  
to the current time having been set or entered by the  
user.

30. The method as claimed in claim 29, wherein the  
timer reservation is to set a programmable recording  
operation.

✓ 31. A method of setting a timer reservation in a  
recording and/or reproducing device, the method  
comprising:  
automatically shifting to a time adjusting  
mode for enabling a user to enter the current time if  
the current time has not been set in response to a  
request for a timer reservation; and  
performing the timer reservation subsequent  
to the current time having been entered by the user.

32. The method as claimed in claim 31, wherein the  
timer reservation is to set a programmable recording  
operation.

✓ 33. A device for making a timer reservation and  
which has a plurality of reservation modes,  
comprising:  
an input device selecting one of the  
reservation modes from the plurality of reservation  
modes and performing the timer reservation in the one  
reservation mode; and  
a processor automatically setting a current  
reservation mode to the one reservation mode in  
response to a request for a next timer reservation from  
the input device.

34. The device as claimed in claim 33, further  
comprising:  
a character display generator which  
generates character signals to display alpha-numeric  
characters;  
wherein the processor determines whether  
the one reservation mode has been previously  
selected, displays a menu to select one of the plurality  
of reservation modes and receives a user input from  
the input device in response to the displayed menu, if  
no reservation mode has been previously selected, and  
performs the next timer reservation in accordance with  
the one reservation mode if the one reservation mode  
has been previously selected or in accordance with the  
user selected reservation mode from the displayed  
menu if no reservation mode has been previously  
selected.

35. The device as claimed in claim 34, wherein the  
processor stores the one reservation mode as a last  
reservation mode in response to performing the timer  
reservation in the one reservation mode, retrieves the  
stored one reservation mode in response to the request

for the next timer reservation from the input device; and sequentially compares the retrieved one reservation mode to ones of the plurality of reservation modes, and if there is a match between the retrieved one reservation mode and any of the ones of the plurality of reservation modes, sets the current reservation mode to the one of the plurality of reservation modes which matches the retrieved one reservation mode.

36. The device as claimed in claim 35, wherein the plurality of reservation modes comprises a VCR plus reservation mode, a VPT reservation mode, and a PDC reservation mode.

37. The device as claimed in claim 34, wherein the processor stores whichever of the one reservation mode and the user selected reservation mode is used to perform the next timer reservation as a last reservation mode in response to performing the next timer reservation.

38. The device as claimed in claim 33, wherein the processor checks whether a current time has been set before performing the next timer reservation, automatically shifts to a time adjusting mode for enabling a user to enter the current time if the current time has not been set, and performs the next timer reservation subsequent to the current time having been set or entered by the user.

39. The device as claimed in claim 33, wherein the processor comprises a volatile memory which temporarily stores the one reservation mode.

40. The device as claimed in claim 39, further comprising a non-volatile memory which stores the one reservation mode.

41. The device as claimed in claim 34, wherein the processor comprises a volatile memory which temporarily stores the one reservation mode.

42. The device as claimed in claim 41, further comprising a non-volatile memory which stores the one reservation mode.

43. The device as claimed in claim 33, wherein the timer reservation is to set a programmable recording operation.

✓44. A device having a plurality of reservation modes, wherein a last one of the reservation modes in which a last timer reservation was performed has been stored, the device comprising:

an input device receiving a request for a next timer reservation; and

a processor automatically setting a next reservation mode to the last reservation mode in response to the request for a next timer reservation.

45. The device as claimed in claim 44, further comprising:

a character display generator which generates character signals to display alpha-numeric characters;

wherein the processor determines whether the last reservation mode has been previously stored, displays a menu to select one of the plurality of reservation modes and receives a user input in response to the displayed menu, if no last reservation mode has been previously stored, and performs the next timer reservation in accordance with the last reservation mode if the last reservation mode has been previously stored or in accordance with the user selected reservation mode from the displayed menu if no last reservation mode has been previously selected.

46. The device as claimed in claim 45, wherein the processor retrieves the stored last reservation mode in response to the request for the next timer reservation, and sequentially compares the retrieved last reservation mode to ones of the plurality of reservation modes, and if there is a match between the retrieved one reservation mode and any of the ones of the plurality of reservation modes, sets the next reservation mode to the one of the plurality of reservation modes which matches the retrieved last reservation mode.

47. The device as claimed in claim 46, wherein the plurality of reservation modes comprises a VCR plus reservation mode, a VPT reservation mode, and a PDC reservation mode.

48. The device as claimed in claim 44, wherein the processor comprises a read only memory which stores whichever of the last reservation mode and the user selected reservation mode is used to perform the next timer reservation as a new last reservation mode in response to the performing of the next timer reservation.

49. The device as claimed in claim 44, wherein the processor checks whether a current time has been set before performing the next timer reservation, automatically shifts to a time adjusting mode for enabling a user to enter the current time to the input device if the current time has not been set, and performs the next timer reservation subsequent to the current time having been set or entered by the user to the input device.

50. The device as claimed in claim 44, wherein the processor comprises a volatile memory which temporarily stores the one reservation mode.

51. The device as claimed in claim 50, further comprising a non-volatile memory which stores the one reservation mode.

52. The device as claimed in claim 45, wherein the processor comprises a volatile memory which temporarily stores the one reservation mode.

53. The device as claimed in claim 52, further



